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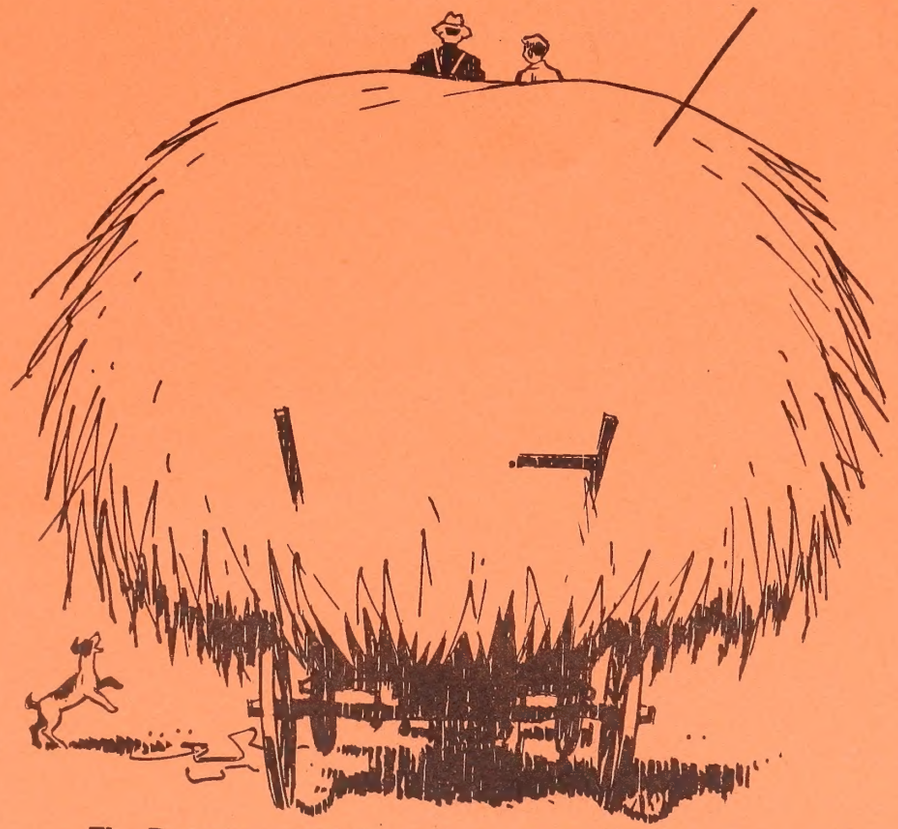
MONTANA COMMERCIAL FEED REPORT



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Volume 28, 1981

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This report consists of the following sections:

Commercial Feed Analyses....Pages 1-10

Pet Food Analyses.....Pages 10-12

Statistical Data.....Pages 13-14

Abbreviations used:

NPN.....Non-Protein Nitrogen

C.....claimed

F.....found

ppm.....parts per million

*.....deficiency

<.....less than

MONTANA DEPARTMENT OF AGRICULTURE

Plant Industry Division

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DISTRICT 5

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Pat Dahlin, Agricultural Inspector
Steve Schmidt, Agricultural Inspector

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C) (C)	(F) (F)
AGRI-FEED & SUPPLY 1518 Dodge Helena, MT 59601																	
Agri Sweet.....	Helena	4522	12.0	11.2*	3.0	3.2	7.0	6.9				A	5,000	6,600			
17% Layer Ration....	Helena	4523	17.0	15.4*	2.0	2.7	7.0	5.3									
ALBERTA PROCESSING Box 5025 Calgary, Alberta Canada																	
Meat Meal.....	Belgrade	4539	50.0	47.5*											(2)Lead(ppm) (2)Cadium(ppm)		10.0 0.4
AMERICAN CYANAMID COMPANY Box 400 Princeton, NJ 08540																	
Cyphos 18.5%.....	Hamilton	4550							Calcium Phosphorus Fluorine	20.-24. 18.5 .185	22.7 17.9 .132						
BASIC INCORPORATED 845 Hanna Building Cleveland, OH 44115																	
MAGOX Feed Grade....	Missoula	4555							Magnesium	54.0	54.1						
BIG HORN AGRI SERVICE 206 Railroad Street Hardin, MT 59034																	
Raw Barley.....	Hardin	4517													(2)Endrin		None
Beef Up.....	Hardin	4518													(2)Endrin		None
Econo Calf Pellet...	Hardin	4560	12.0	13.4	2.0	2.9	12.0	10.8									
Hog Finisher "13"...	Hardin	4561	13.0	14.0	7.5	2.2	6.0	4.2				A	5,000	4,500			
BIG SKY FEED & SUPPLY COMPANY Box 2799 Great Falls, MT 59403																	
Big Sky Range Mineral.....	Great Falls	4367							Calcium Phosphorus Salt	11.5-12. 15.0 8.5-9.5	10.1 14.8 6.1*	A	100,000	120,000			
Feedlot Supplement..	Great Falls	4368	20.0	21.4					Calcium Phosphorus Salt	5.-5.5 1.0 4.0-5.	5.7 1.1 4.6	A	30,000	31,000			
Big Sky Range 20%...	Great Falls	4369	20.0	21.3					Calcium Phosphorus	0.7-1. 1.0	0.9 1.1	A	30,000	30,000			
Big Sky Hog Finisher.	Great Falls	4541	14.0	17.5	2.0	4.0	7.5	6.7									
Big Sky Pig Grower T20.....	Great Falls	4542	16.0	18.5	1.5	3.6	7.0	7.4									
BIG SKY FEED & SUPPLY 3801 First Ave. So. Billings, MT 59103																	
Big Sky Range Block 20%.....	Billings	4412	20.0	19.8					Salt	12.-14.	13.0	A	30,000	33,000			
Big Sky Range Block 20%.....	Absarokee	4527	20.0 6.5	20.8 6.8NPN	1.0	1.0	10.0	7.8	Calcium Phosphorus Salt	1.-2. 1.0 12.-14.	1.2 1.1 13.8	A	30,000	43,000			
BILLINGS RENDERING COMPANY Box 31671 Billings, MT 59107																	
Ground Meat & Bone Meal.....	Billings	4579	50.0	50.0	8.0	11.7	4.0	4.0							(2)Lead(ppm) (2)Cadium(ppm)		39.8 0.5
BIO-ZYME ENTERPRISES, INC. 1231 Alabama Street St. Joseph, MO 64504																	
Vita Ferm 6:2.....	Butte	4388	27.5	27.4					Calcium Phosphorus Salt Magnesium	3.-2. 2.4 0.6-0.1 1.3	4.1 3.1 2.0 1.9	A D_3	165,000 3,000	175,000 3,500			

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
C. B. & F. DEVELOPMENT CORP.																	
Box 412																	
Culbertson, MT 59218																	
20% Range Block.....	Culbertson	4347	20.0	20.5					Salt	7.5-8.5	7.3	A	30,000	30,000			
												D_3	7,500	7,800			
Super Hi Energy Range Pellets.....	Culbertson	4348										A	20,000	23,000			
												D_3	5,000	5,800			
Super 14% Bull and Calf Pellets.. ...	Culbertson	4349	14.0	14.2					Calcium	0.3-0.4	0.4						
									Phosphorus	0.4	0.43						
18% Pig Starter Ration MXB Medicated.....	Culbertson	4566	18.0	19.0	1.5	2.1	4.5	6.1*									
Super 15% Calf Conditioning Crumble Medicated.	Culbertson	4567	15.0	14.4*	2.0	3.6	18.0	13.5	Calcium	1.-1.2	0.9	A	20,000	21,000			
									Phosphorus	0.5	0.5	D_3	5,000	5,900			
									Iodine	0.0037	0.0058						
Super 14% Bull & Calf Pellets.....	Culbertson	4568	14.0	13.5	1.0	3.3	13.0	10.6	Calcium	0.3-0.4	0.5	A	2,000	3,000			
									Phosphorus	0.4	0.4						
CARGILL, INC.																	
Box 577																	
Chester, MT 59522																	
Super 38 Dairy Concentrate B.....	Bozeman	4533	38.0	38.5	1.0	1.7	6.0	4.2	Calcium	1.-2.	1.1	A	25,000	31,000			
									Phosphorus	1.5	1.1*	D	12,500	11,000			
									Salt	1.-1.5	0.5*						
CARGILL, INC.																	
Nutrena Feed Division																	
Box 9300, Dept. 14																	
Minneapolis, MN 55440																	
37% Small Grain Poultry Concentrate.....	Bozeman	4446	37.0	35.8*					Salt	0.75-1.75	1.2						
Super-38 Dairy Concentrate (B).....	Bozeman	4447	38.0	35.3*													
Top Calf Starter Ration Medicated.....	Bozeman	4448	18.0	17.3*													
20% Egg Feed.....	Bozeman	4449	20.0	18.8*													
COAST TRADING CO.																	
Box 2566																	
Great Falls, MT 59403																	
Linseed Meal or Pellets.....	Great Falls	4419	34.0	33.8													
COAST TRADING CO.																	
Box 7696																	
Missoula, MT 59801																	
16 Pullet Grower....	Missoula	4385	16.0	16.6											(1)Amprolium	0.00875	0.0110
Rabbit Pellets.....	Missoula	4386	18.0	15.4*													
20% Layer Ration....	Missoula	4387	20.0	20.2					Calcium	3.-4.	3.7						
									Phosphorus	1.0	1.1						
34 Dairy Supplement.	Missoula	4553	34.0	32.9	1.5	2.5	11.0	7.5	Phosphorus	1.5	1.7						
COAST TRADING CO.																	
Portland, OR 97201																	
16% Hog Grower.....	Missoula	4554	16.0	15.8	2.0	2.3	7.0	7.7									
CARNATION																	
5045 Wilshire Blvd.																	
Los Angeles, CA 90036																	
Rabbit Family Ration 18.....	Helena	4524	18.0	16.8*	2.0	2.8	20.0	19.7									
CATTLE-LAC FEED COMPANY																	
Box 9002																	
Missoula, MT 59801																	

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
CATTLE-LAC FEED COMPANY (continued)																	
Cattle-Lac Mineral Feed Supplement	Missoula	4552	4.0	4.1					Calcium	14.-15.	14.1	D_3	40,000	44,000			
									Phosphorus	12.0	12.3						
									Salt	2.-3.	2.7						
									Iodine	0.005	0.0054						
COMMERCIAL GRAIN East Northern Avenue Plentywood, MT 59254																	
36% Swine Sup.	Plentywood	4584	36.0	36.0	1.0	0.9	6.0	5.1	Calcium	3.5-4.5	3.9						
									Phosphorus	1.6	1.8						
									Salt	2.-3.	2.6						
Swine Mineral Mix...	Plentywood	4585							Calcium	22.-25.	22.0						
									Phosphorus	9.0	10.0						
									Salt	12.-13.	12.6						
CONTINENTAL GRAIN CO. Processing Division Box 478 Culbertson, MT 59218																	
20% Protein Solvent Extracted Safflower Meal....	Culbertson	4569	20.0	20.8	1.0	2.2	38.0	37.8	Phosphorus	0.5	0.6						
CONTINENTAL GRAIN CO. Processing Division 277 Park Avenue New York, NY 10017																	
38% Protein Solvent Extracted Safflower Meal....	Culbertson	4345	38.0	41.4													
20% Protein Solvent Extracted Safflower Meal....	Culbertson	4346	20.0	23.7													
CONAGRA, INC. 1420 Minnesota Avenue Billings, MT 59101																	
Deluxe Creep Pellet for Calves & Lambs.....	Billings	4328	16.0	18.6								A D_3 A D_3 A D_3	62,500 7,500 15,000 6,250 1,200,000 500,000	59,000 8,700 17,000 7,500 1,180,000 468,000			
Horse Bloom.....	Billings	4329	14.0	14.8													
C. V. C.....	Billings	4330	22.0	26.8													
Westfeed Dairy Premix.....	Billings	4331							Calcium Phosphorus Salt	1.1-1.3 5.0 24.-25.	3.7* 5.0 22.0	A D_3 D_2	400,000 200,000 200,000	403,000 372,000 37,000			
CONAGRA, INC. Box 2548 Great Falls, MT 59403																	
High Energy Broiler Starter Mo-90 Medicated.....	Great Falls	4545	23.5	26.3	7.5	5.6*	5.0	4.1									
Feeder Calf Sup.....	Great Falls	4546	14.0 1.5	17.9 2.4*NPN	1.5	2.1	17.0	17.8									
Lay Pow'r 20.....	Great Falls	4547	20.0	19.0*	3.0	3.6	6.0	5.4									
Hi Pow'r Minrel 412.	Great Falls	4548	20.0	21.6NPN					Calcium Phosphorus Salt Iodine	4.-4.5 12.0 3.-4. 0.02	3.4 8.5 3.5 0.0113	A	100,000	150,000			
Hi Pow'r Ani-Min-Rel.....	Great Falls	4549	10.0	9.7NPN					Calcium Phosphorus Salt Iodine	8.6-10.3 15.0 3.5-4.5 0.01	8.9 14.7 3.4 0.0122	A	100,000	120,000			
CONAGRA, INC. General Offices Omaha, NE 68131																	

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C) (C)	(F) (F)
CONAGRA, INC. (continued)																	
Hi Pow'r Minrel 412	Billings	4327	20.0	23.4					Calcium	4.-4.5	4.4	A	100,000	89,000			
									Phosphorus	12.0	11.2						
									Salt	3.-4.	3.3						
Hi Pow'r Molas-o-cake	Billings	4332	20.0	20.0								A	30,000	35,800			
Hi Pow'r Ani-Min-Rel	Great Falls	4365	10.0	15.9					Calcium	8.6-10.3	8.3	A	100,000	110,000			
									Phosphorus	15.0	14.3						
									Salt	3.5-4.5	3.9						
Hi Pow'r Minrel 412	Great Falls	4366	20.0	27.1					Calcium	4.-4.5	4.3	A	100,000	130,000			
									Phosphorus	12.0	12.1						
									Salt	3.-4.	4.1						
Chick Starter M-125 Medicated	Great Falls	4399	20.5	21.3											(1)Amprolium	0.0125	0.0119
Broiler Pow'r M Med.	Great Falls	4400	24.0	22.6*											(1)Amprolium	0.125	0.0135
Chick Pow'r M-125 Medicated	Great Falls	4401	18.0	17.3*											(1)Amprolium	0.0125	0.0119
Range Pow'r 20 Block	Great Falls	4413	20.0	19.2*					Salt	11.9-14.2	13.4	A	30,000	44,000			
Hi Pow'r Molas-o-cake	Great Falls	4414	20.0	20.1								A	30,000	30,000			
Range Pow'r Molas-o Block	Billings	4420	20.0	20.0					Calcium	2.7-3.7	2.7						
									Phosphorus	2.0	1.1*						
									Salt	12.3-14.7	14.1						
Sow Pow'r B & L	Billings	4421	15.0	14.8					Calcium	0.3-1.3	0.8						
									Phosphorus	0.6	0.7						
Broiler Finisher Pow'r	Billings	4422	21.0	21.1													
Pork Pow'r 16 C-30 Medicated	Bozeman	4423	16.0	14.6*													
Horse Pow'r 15	Bozeman	4424	15.0	16.1													
Fattener Pow'r B & L 12 O-10 Medicated	Bozeman	4425	12.0	14.0													
Lay Pow'r 20	Bozeman	4426	20.0	19.2*													
Steer Pow'r 32	Bozeman	4427	32.0	31.0*													
Broiler Pow'r M Med.	Bozeman	4428	24.0	22.9*													
Duck & Goose Pow'r.	Bozeman	4429	18.0	18.2													
Range Pow'r Molas-o-cake	Bozeman	4430	20.0	20.5													
Range Pow'r 20 Block	Bozeman	4431	20.0	18.7*					Salt	11.9-14.2	13.4						
Feeder Calf Sup.Med.	Absarokee	4525	14.0	17.3	1.5	3.0	17.0	18.2									
			1.5	2.2*NPN													
Hi Pow'r Molas-o-cake	Absarokee	4526	20.0	20.5	2.0	3.3	10.0	12.4*	Calcium	0.5-1.5	0.54	A	30,000	30,000			
			5.0	5.3NPN					Phosphorus	1.0	1.0						
Pork Pow'r 14C-10 Medicated	Big Timber	4531	14.0	12.9*	2.0	3.3	6.0	6.0									
Lay Pow'r 20	Big Timber	4532	20.0	20.5	3.0	3.9	6.0	6.4									
DAWSON MILLS Box BB Dawson, MN 56232																	
Soybean Meal	Glendive	4333	44.0	43.9													
EQUITY SUPPLY Box 579 Kalispell, MT 59901																	
Egg Mash	Kalispell	4355	20.0	17.8*					Calcium	1.0	1.0						
									Phosphorus	2.0	0.7*						
Hog Grower	Kalispell	4356	15.0	16.5													
Horse Feed 13	Kalispell	4357	13.0	15.8								A	14,000	15,000			
												D_3	5,000	4,200			
Dairy Feed..	Kalispell	4358	16.0	16.3													
Pig & Hog Feed	Kalispell	4359	13.0	12.8													
Equity Chick Starter Medicated	Kalispell	4405	20.0	19.2											(1)Amprolium	0.006	0.005

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
EQUITY SUPPLY (continued)																	
Dairy Milk Pellets..	Kalispell	4450	16.0	16.5													
13% Pig & Hog Feed..	Kalispell	4451	13.0	12.5*													
Hen & Pullet Scratch	Kalispell	4452	9.0	9.3													
Range Block.....	Kalispell	4453	22.0	20.0*					Salt	11.-13.	11.4						
Hog Grower.....	Kalispell	4454	15.0	13.6*													
Equity Dairy Feed...	Kalispell	4588	16.0	15.1*	3.0	2.2*	12.5	5.9									
FARR BETTER FEEDS Div. Of W. R. Grace Box 20462 Billings, MT 59104																	
Raw Barley.....	Billings	4512													(2)Endrin		None
Screenings.....	Billings	4513													(2)Endrin		None
18% Pig Starter.....	Billings	4515													(2)Endrin		None
Bull Ration.....	Billings	4580	12.0	12.3	3.0	3.4	12.0	9.9	Calcium	0.4-0.6	0.7	A	6,000	13,000			
			0.5	0.4NPN					Phosphorus	0.45	0.39						
									Salt	0.9-1.1	1.4						
Cube 122.....	Billings	4581	12.0	13.4	2.8	3.1	10.25	11.9	Calcium	0.9-1.1	1.2	A	20,000	35,000			
									Phosphorus	0.75	0.66	D	2,000	2,700			
									Salt	1.8-2.2	2.2						
FARMERS UNION GRAIN TERMINAL ASSOCIATION Dickinson, ND																	
Krumble Aid Med.....	Sidney	4343										A	250,000	245,000			
												D_3	25,000	27,000			
Kalf Kik Med.....	Sidney	4344	14.0	14.3					Calcium	0.5-1.5	1.5	A^3	5,000	5,500			
									Salt	0.5-1.5	1.2						
FARMERS UNION GRAIN TERMINAL ASSOCIATION Hardin, MT 59034																	
Dari-Ration 14.....	Hardin	4519													(2)Endrin		None
Raw Barley.....	Hardin	4520													(2)Endrin		None
FARMERS UNION GRAIN TERMINAL ASSOCIATION Box 1447 Sioux Falls, SD 57117																	
Cattle Call.....	Glendive	4337	20.0	19.5								A	20,000	15,000			
												D_3	4,000	6,500			
Ranger.....	Glendive	4338	22.0	21.9								A^3	40,000	39,600			
												D_3	8,000	17,400			
Million-Ade.....	Great Falls	4370										A^3	1,000,000	1,300,000			
												D_3	500,000	500,000			
Hi-Lo.....	Great Falls	4371							Calcium	1.-2.	1.0	A^3	10,000	27,000			
									Phosphorus	15.0	13.6						
									Magnesium	2.5	3.3						
Ranger.....	Great Falls	4372	22.0	21.3								A	40,000	43,000			
												D_3	8,000	7,800			
Range Mineral.....	Great Falls	4373							Calcium	12.-14.	12.0	A^3	10,000	<3,000*			
									Phosphorus	15.0	14.5						
									Magnesium	2.5	2.3						
Lit-o-bit Med.....	Dillon	4376	20.0	20.4								A	3,000	3,000			
Beef Advancer.....	Dillon	4377	20.0	19.5								A	30,000	34,000			
												D_3	6,000	6,500			
Pik-a-pak Brown Pak Med.....	Great Falls	4396	38.0	37.2											(1)Furazolidone	0.66	0.78
															(1)Arsanilic Acid	0.4	0.3
Broiler Finisher-A Med.....	Great Falls	4397	20.0	20.3											(1)Amprolium	0.0125	0.012
Broiler Starter-A Med.....	Great Falls	4398	23.0	23.2											(1)Amprolium	0.0125	0.0103
Broiler Starter-A Med.....	Billings	4406	23.0	21.6*											(1)Amprolium	0.0125	0.0135
Ranger Blox.....	Billings	4408	22.0	21.3					Salt	11.-13.	11.2	A	40,000	43,000			
												D_3	8,000	6,800			
Broiler Finisher-A Med.....	Billings	4407	20.0	19.2*											(1)Amprolium	0.0125	0.0116
Beef Booster.....	Great Falls	4415	38.0	37.7													
Beef Advancer Med...	Great Falls	4416	20.0	19.9													
Calf Con.....	Great Falls	4417	25.0	24.4													
C & C 16 Blox.....	Great Falls	4418	16.0	16.1					Salt	8.-9.5	9.4						

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
FARMERS UNION GRAIN TERMINAL ASSOCIATION (continued)																	
Kalf Kik Med.	Forsyth	4457	14.0	13.9													
Cattle Call.	Forsyth	4458	20.0	20.1													
Chick Gro-A Med.	Glendive	4459	16.0	16.0											(1)Amprolium	0.004	0.004
Complete Layer.	Columbus	4528	16.0	15.7	2.0	3.8	5.0	3.1	Calcium	3.-4.	3.9						
									Phosphorus	0.5	0.6						
									Salt	0.25-0.75	0.41						
Egg Feed.	Columbus	4529	20.0	19.9	2.0	3.6	7.0	7.1	Calcium	5.5-6.5	6.1						
									Phosphorus	0.8	1.1						
									Salt	0.5-1.5	1.3						
Ranger.	Big Timber	4530	22.0	22.0	1.0	3.2	12.5	7.4				A	40,000	37,000			
			7.5	6.4NPN								D_3	8,000	7,400			
Lay-Con-42.	Great Falls	4575	42.0	42.0	7.5	8.7	5.0	4.5	Calcium	2.5-3.5	3.4						
									Phosphorus	1.75	1.75						
									Salt	1.5-2.5	1.5						
Six-in-one Med.	Great Falls	4576	38.0	37.8	2.0	4.0	6.0	4.1	Calcium	3.75-4.75	4.29	A	6,000	11,000			
									Phosphorus	2.25	2.21						
									Salt	1.5-2.5	1.8						
									Iodine	0.001	0.0015						
Six-in-one.	Great Falls	4577	38.0	37.7	2.0	3.7	6.0	4.3	Calcium	2.75-3.75	4.32						
									Phosphorus	1.6	2.37						
									Salt	1.-2.	1.8						
									Iodine	0.001	0.0015						
Chick Concentrate BZ Med.	Great Falls	4578	38.0	38.5	2.0	3.7	6.0	5.1	Calcium	3.75-4.75	2.83	A	6,000	6,100			
									Phosphorus	2.25	1.81						
									Salt	1.5-2.5	1.4						
									Iodine	0.001	0.0024						
Dari-land.	Billings	4315	38.0	38.1					Calcium	1.-2.	1.9	A	15,000	28,800			
									Phosphorus	1.25	1.1						
									Salt	1.5-2.5	1.5						
Kalf Kik Med.	Billings	4316	14.0	14.0								A	5,000	5,300			
Beef Grow Med.	Billings	4317	38.0	38.2					Calcium	1.5-2.5	2.2	A	30,000	31,000			
									Phosphorus	1.0	1.1						
									Salt	1.25-2.25	1.5						
Beef Developer Med.	Billings	4319	30.0	30.2					Calcium	3.-4.	4.0	A	30,000	29,000			
									Phosphorus	0.25	0.47	D_3	6,000	5,300			
									Salt	1.25-2.25	1.8						
GOLD LABEL FEEDS Box 427 West Fargo, ND 58078																	
Gold Label Sun Cor Cubes NP.	Sidney	4342	15.0	13.9*					Calcium	0.5-0.9	0.9	A	20,000	20,900			
									Phosphorus	0.5	0.54						
									Salt	0.6-0.9	0.9						
Gold Label 32% Beef Sup.	Bainville	4350	32.0	31.0*					Calcium	2.25-2.75	2.72	A	40,000	43,900			
									Salt	1.9-2.2	2.0						
Gold Label 20% Beef Sup Sup.	Bainville	4351	20.0	19.9					Calcium	2.25-2.75	2.78	A	40,000	41,800			
									Phosphorus	1.0	1.0						
									Salt	1.9-2.2	2.0						
HAALAND'S T-BONE FEEDER CORP. Box 97 Shepherd, MT 59079																	
Raw Barley.	Shepherd	4514													(2)Endrin		None
HONEYMEAD PRODUCTS COMPANY 720 Minneopa Road Mankato, MN 56001																	
High Energy 47.5% Soybean Meal.	Glendive	4336	47.5	46.5													
KALISPELL FEED AND GRAIN Box 1975 Kalispell, MT 59901																	

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
KALISPELL FEED AND GRAIN (continued)																	
Beef-Gro	Kalispell	4360	12.0	12.9													
Fortified Hi-Fos Mineral	Kalispell	4361							Calcium	5.-6.	6.9						
									Phosphorus	12.0	12.5						
									Salt	10.-10.75	10.3						
Hog Finisher	Kalispell	4362	13.0	13.6													
16% Layer Mash	Kalispell	4363	16.0	15.8													
Hi-Cal Broiler Crumbles	Kalispell	4364	22.0	20.9*													
Pig Pre-Starter Med.	Kalispell	4402	20.0	19.9													
Developer Crumbles Med.	Kalispell	4403	16.0	16.4											(1)Amprolium	0.0125	0.012
Chick Starter Crumbles Med.	Kalispell	4404	20.0	20.4											(1)Amprolium	0.025	0.024
Developer Crumbles Med.	Kalispell	4558	16.0	16.7	2.5	2.3	7.0	4.8							(1)Amprolium	0.125	0.012
High Energy Horse Pellets	Kalispell	4559	15.0	16.9	2.0	2.2	9.0	7.4	Calcium	1.0	1.0						
									Phosphorus	0.7	0.6						
LAKE MILLING, INC. Box 288 Hamilton, MT 59840																	
20% Cow Cake	Hamilton	4352	20.0	20.1								A	20,000	27,000			
												D	10,000	11,000			
All Natural 27	Hamilton	4353	27.0	26.7					Calcium	0.7-1.25	1.56	A	45,000	15,000*			
									Phosphorus	2.75	1.50*	D	3,600	2,300			
All Natural 32	Hamilton	4354	32.0	30.7*					Calcium	1.5-2.5	2.6	A	20,000	17,000			
									Phosphorus	1.5	1.4	D	10,000	9,900			
14% Cow Cake	Hamilton	4551	14.0	14.9	1.5	2.8	8.0	11.8*				A	10,000	7,800			
												D	5,000	3,500			
MYERS RANCH SUPPLY Box 407 Sidney, MT 59270																	
Myers Range Mineral No. 15	Sidney	4570							Calcium	4.5-5.5	5.7	A	100,000	180,000			
									Phosphorus	15.0	15.8	D_3	10,000	3,000*			
									Fluorine	0.15	0.44						
MINNESOTA DEHY LeCenter, MN 56057																	
Alfalfa Meal	Belgrade	4540	17.0	18.1	2.0	2.8	27.0	29.1									
PFAU'S HAY PELLETING MILL Route 2, Box 109 Stevensville, MT 59870																	
Grain Pellets	Stevensville	4389	14.0	12.9*													
PEAVEY COMPANY 96 South Broadway Belgrade, MT 59714																	
Peavey Calf Balancer "27"	Belgrade	4378	27.0	27.1								A	20,000	17,000			
												D	5,500	6,100			
Peavey Triple Booster "36"	Belgrade	4379	36.0	36.0					Calcium	1.5-2.5	2.0	A	40,000	43,000			
									Salt	1.-2.	1.5	D	8,000	8,900			
Peavey White Tag "20"	Belgrade	4380	20.0	19.6								A	20,000	11,000*			
												D	4,000	4,400			
Peavey Rooster Cake "20"	Belgrade	4381	20.0	20.5								A	30,000	28,000			
												D	6,000	6,800			
Dyna-Gro Milk Replacer "24/24"	Belgrade	4382	24.0	23.2*								A	25,000	30,000			
												D	8,000	11,300			
Dyna-Min 5/15 Mineral Plus Crumbles	Belgrade	4383	25.0	22.0*NPN					Calcium	4.5-5.5	5.4	A	150,000	143,000			
									Phosphorus	15.0	14.1	D	30,000	26,000			
									Salt	5.-6.	5.7						

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
PEAVEY COMPANY (continued)																	
Peavey 24/9 FC Mineral Med.	Belgrade	4384							Calcium	22.-26.	21.6	A	50,000	30,000*			
									Phosphorus	9.0	9.9	D	25,000	23,000			
									Salt	9.-11.	10.9						
Raw Barley	Belgrade	4521													(2)Endrin		None
PEAVEY COMPANY 3601 1st Avenue South Billings, MT 59101																	
Mill Run Screenings	Billings	4516													(2)Erdrin		None
PEAVEY COMPANY Box 467 Glendive, MT 59330																	
Dale Stadman Custom Pellets	Glendive	4334	12.0	12.4													
PEAVEY COMPANY 730 Second Avenue South Minneapolis, MN 55402																	
Peavey Creep Ration	Glendive	4335	12.5	12.4								A	5,000	2,700*			
White Tag "20" Range Cubes	Dillon	4375	20.0	19.0*								A	20,000	17,000			
												D	4,000	4,200			
Peavey Layer "20"	Conrad	4392	20.0	18.6*					Calcium	3.5-4.5	3.6						
									Phosphorus	1.0	0.9						
									Salt	1.-2.	1.1						
Peavey Hog Pro-Tone "B" 100 Med.	Conrad	4393	32.0	29.9*					Calcium	4.5-5.5	4.8						
									Phosphorus	1.5	1.8						
									Salt	2.5-3.5	2.7						
Peavey Pig Hustler "18" 1A Med.	Conrad	4394	18.0	17.2*													
Peavey Booster Cake "20"	Conrad	4395	20.0	21.1								A	30,000	31,000			
												D	6,000	6,800			
Breeder Block "13"	Belgrade	4433	13.0	14.2					Salt	12.5-15.	11.6						
Pro-Tone Block "20"	Belgrade	4434	20.0	20.6					Salt	10.-12.	11.3						
Econo Booster Block "20"	Belgrade	4435	20.0	20.1					Salt	15.-18.	17.7						
Pro-Tone Block "20"S	Belgrade	4436	20.0	20.5					Salt	15.-18.	16.0						
Dairy Pro-Tone "38"	Belgrade	4437	38.0	36.4*													
Dairy Pro-Tone "32" AN	Belgrade	4438	32.0	31.0													
Rabbit Pellets	Belgrade	4439	16.0	15.3*													
Layer "20"	Belgrade	4440	20.0	18.5*					Salt	1.-2.	1.1						
Chick Starter "20"A	Belgrade	4441	20.0	17.6*													
Chick Grower "17" 2A Med.	Belgrade	4442	17.0	19.4													
S & L Pro-Tone Base	Belgrade	4443	38.0	37.6					Salt	2.-3.	2.8						
Lamb Creep "15"Med.	Belgrade	4444	15.0	15.3													
Beef-Up	Belgrade	4445	12.0	11.7													
Creep Ration	Miles City	4455	12.5	13.5													
Econo Cake 12	Miles City	4456	12.0	15.7													
Chick Starter 20 1-A Med.	Sidney	4460	20.0	20.2											(1)Zoalene	0.0083	0.0093
Econ Booster Block "20"	Belgrade	4534	20.0	18.0*	1.0	1.6	11.0	9.1	Calcium	0.8-1.8	0.91	A	20,000	22,000			
			12.0	10.8NPN					Phosphorus	1.0	1.1	D	4,000	4,400			
									Salt	15.-18.	16.8						
4 Seasons Block	Belgrade	4535	14.0	13.6	1.5	1.2	9.0	6.3	Calcium	1.-0.4	0.56	A	15,000	14,000			
			3.0	3.1NPN					Phosphorus	6.0	0.88	D	3,000	4,700			
									Salt	12.5-15.	13.4						
Pig Growner 16	Belgrade	4536	16.0	15.7	2.0	3.2	7.0	5.7									
Tend-R-Leen Beef Starter	Belgrade	4537	12.0	14.7	1.5	3.0	17.0	16.4				A	5,000	13,000			
			4.0	1.9NPN													
Triple Booster 36	Belgrade	4538	36.0	35.6	1.0	2.7	9.0	5.2	Calcium	1.5-2.5	2.2	A	40,000	35,000			
			14.5	13.6NPN					Phosphorus	2.0	2.3	D	8,000	6,700			

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS	(C)	(F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
PEAVEY COMPANY																	
Box 678																	
Sidney, MT 59270																	
Pro-Tone Plus Pak GFC-50 Med.	Sidney	4339	26.0	23.6*					Calcium	8.2-9.6	10.1						
									Salt	5.-6.	5.2						
Cattle Conditioner 4-A-Day Med.	Sidney	4340	14.0	13.9								A	12,000	13,000			
Beef Pro-Tone 32 B1.	Sidney	4341	32.0	28.0*					Calcium	3.5-4.5		A	20,000	12,500*			
									Phosphorus	1.0	0.9						
									Salt	1.5-2.5	1.6						
RALSTON PURINA COMPANY																	
Checkerboard Square																	
St. Louis, MO 63188																	
Dairy Mineral	Stevensville	4557							Calcium	16.-19.	19.0						
									Phosphorus	16.0	16.0						
									Iodine	0.016	0.0118						
Purina Horse Chow Checkers	Billings	4562	12.5	12.8	1.0	2.3	25.0	19.9									
Purina Horse Charge.	Billings	4563	33.0	32.4	0.5	2.7	7.5	8.6	Calcium	1.-2.	1.8	A	9,000	13,000			
									Phosphorus	0.9	0.9	D	2,000	1,900			
									Salt	2.2-3.2	2.8						
Purina Sweetena	Sidney	4571	10.0	10.9	2.0	3.0	15.0	10.4									
Omolene #100	Sidney	4572	10.0	10.0	2.0	3.1	10.0	6.1									
STANDARD CHEMICAL MFG. COMPANY																	
Box 3844																	
Omaha, NE 68703																	
Vitamin Pre-Mix	Billings	4324										A	600,000	665,000			
												D_3	100,000	100,000			
Super Sow Conditioner	Billings	4325	37.0	38.5					Calcium	3.5-4.5	4.4	A	30,000	31,800			
									Phosphorus	2.5	2.7						
									Salt	2.25-2.75	1.1*						
Cattle Booster	Billings								Calcium	2.-3.	3.6	A	155,000	160,000			
									Phosphorus	5.0	5.3	D	15,500	14,000			
									Salt	18.-21.6	22.5						
									Magnesium	10.0	9.5						
Custom Montana Pre-Mix	Billings	4564							Calcium	2.-3.	4.7*	A	300,000	330,000			
									Phosphorus	7.5	6.6	D	50,000	37,000			
17% Pig Pre-Starter Med.	Billings	4565	17.0	17.7	3.0	2.7	3.5	3.1	Calcium	0.8-0.9	1.0	A	5,250	5,500*			
									Phosphorus	0.75	0.77						
Mr. Meaty Base Mix.	Billings	4321	30.0	32.2					Calcium	11.-13.	10.7	A	60,000	57,000			
									Phosphorus	6.0	6.5	D_3	4,800	5,500			
50% Hog Meaty Pre-Mix No. 3 Med.	Billings	4322	50.0	49.7					Calcium	6.7-8.	7.5	A	40,000	41,000			
									Phosphorus	4.5	5.1						
Super Nutro Comples.	Billings	4323										A	1,000,000	1,090,000			
												D_2	50,000	51,000			
												D_3	350,000	390,000			
STEVENSVILLE FEED AND FUEL																	
Box 69																	
Stevensville, MT 59870																	
13% Dairy Feed	Stevensville	4390	13.0	10.5*													
Laying Feed	Stevensville	4391	15.0	13.3*													
Laying Feed	Stevensville	4556	15.0	14.4	1.5	2.4	6.5	3.9									
WESTERN SEED AND SUPPLY																	
Box 67																	
Ronan, MT 59864																	
A & D Premix 25	Ronan	4587										A	2,000,000	2,800,000			
												D_3	1,000,000	850,000			

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS (C)	MINERALS (F)	VITAMINS USP UNITS	VITAMINS (C)	VITAMINS (F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
WESTWAY TRADING CORPORATION Box 821 Billings, MT 59103																
Converter Liquid Supplement	Billings	4586	10.0 3.25	1.8 5.4*NPN							A	30,000	49,000			
WILLIAMS FEED, INC. P. O. Drawer 831 Dillon, MT 59749																
14% Steer Feed	Dillon	4374	14.0	9.6*							A	4,000	<3,000			

PET FOODS

ALBERTSON'S INC. Box 20 Boise, ID 83726																
Master Treat Chunk Style Dog Food	Butte	4503	21.0	21.2												
ALLEN PRODUCTS CO., INC. Box 2187 Allentown, PA 18001																
Alamo	Helena	4474	21.0	22.7												
CARNATION COMPANY 5045 Wilshire Blvd. Los Angeles, CA 90036																
Little Friskies Seafood Flavor	Sidney	4484	30.0	29.9												
Little Friskies Gourmet Flavor	Sidney	4485	30.0	29.5												
Fish Ahoy	Sidney	4486	30.0	30.1												
Chef's Blend	Sidney	4487	30.0	29.4												
COAST TRADING COMPANY Portland, OR 97201																
Cube Dog Quality Food CTC	Missoula	4506	21.0	21.9												
CONAGRA PET FOODS DIV. Box 938 Rolla, MO 65401																
Kasco Professional Puppy Formula	Great Falls	4491	28.0	25.0*												
FARMERS UNION GRAIN TERMINAL ASSN. Box 1447 Sioux Falls, SD																
Cat Food	Billings	4483	30.0	32.5												
GEISLER PET PRODUCTS INC. 3902 Levenworth Street Omaha, NE 68105																
Parakeet Seed	Great Falls	4495	12.0	12.7												
Rabbit Diet	Great Falls	4496	15.0	15.6												
GENERAL FOOD CORPORATION 250 North Street White Plains, NY 10625																
Top Choice Chopped Burger for Dogs	Bozeman	4501	18.0	21.3												
Gaines Burger for Dogs	Bozeman	4502	18.0	20.7												

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS (C)	VITAMINS USP UNITS (F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
HARTZ MOUNTAIN CORPORATION 700 South Fourth Street Harrison, NJ 07029																
Dog Kisses	Missoula	4507	13.0	14.8												
Doggie O's	Missoula	4508	9.0	9.3												
Hartz Yummies	Missoula	4509	21.0	21.8												
THE HERVIN COMPANY Box 309 Tualatin, OR 97062																
Blue Mountain Tasty Tuna Flavor Kitty O's	Butte	4504	30.0	30.9												
Blue Mountain Natural Style Puppy Food Beef Flavor	Butte	4505	27.0	25.8*												
HILLS PET PRODUCTS INC. Box 148 Topeka, KS 66614																
Max. Stress Diet Dog Food	Helena	4473	27.0	29.3												
IAMS FOOD COMPANY Box 862 Lewisburg, OH 45338																
Puppy Food	Helena	4471	28.0	27.1*												
JERKY TREATS INC. 4707 Fred Wilson Road El Paso, TX 79904																
Beef Flavor Dog Snacks	Kalispell	4499	33.0	40.1												
KALISPELL FEED AND SUPPLY Box 1075 Kalispell, MT 59901																
Hi Pro Dog Food chunk	Kalispell	4510	24.0	23.3												
Hi Pro Dog Food	Kalispell	4511	24.0	23.9												
KAL KAN FOODS, INC. 3386 E. 44th Street Vernon, CA 90058																
Crave Cat Food	Helena	4472	32.5	32.3					Calcium Phosphorus	1.0 0.8	1.0 1.0					
LIV-A-SNAPS, INC. Box 43490 St. Paul, MN 55165																
Liv-A-Snaps for Dogs	Helena	4475	18.0	21.1												
MID STATES DISTRIBUTING CO., INC. Box 879 Joplin, MO 64801																
Dura-Life Cat Food	Billings	4482	30.0	28.9*					Calcium Phosphorus	1.2 1.0	2.1 1.2					
NABISCO, INC. East Hanover, NJ 07936																
Milk Bone Dog Biscuits	Kalispell	4498	20.0	20.5												
QUAKER OATS COMPANY 345 Merchandise Mart Plaza Chicago, IL 60654																
Kibbles N Bits	Sidney	4488	19.0	19.7												
Tender Chunks (yellow)	Sidney	4489	16.0	15.8												
Tender Chunks (red)	Sidney	4490	16.0	16.0												

MANUFACTURER, BRAND and PRODUCT NAME	PLACE OF COLLECTION	SAMPLE NUMBER	PROTEIN (C)	PROTEIN (F)	FAT (C)	FAT (F)	FIBER (C)	FIBER (F)	MINERALS	(C)	(F)	VITAMINS USP UNITS (C)	VITAMINS USP UNITS (F)	(1)DRUGS (2)CONTAMINENT	(C)	(F)
RALSTON PURINA COMPANY Checkerboard Square St. Louis, MO 63188																
Tender Vittles Hearty Platter Cat Food	Billings	4476	24.0	23.9					Calcium Phosphorus	1.0 0.8	1.2 1.3					
Tender Vittles Liver Flavor Cat Food	Billings	4477	24.0	24.3					Calcium Phosphorus	1.0 0.8	1.1 1.3					
Purina Dog Chow	Billings	4478	21.0	21.8												
Purina Puppy Chow	Billings	4479	27.0	27.1												
Purina Moist & Chunky Dog Chow	Billings	4480	18.0	18.7												
SAFEWAY STORES, INC. Oakland, CA 94660																
Tasty Nuggets Dog Food	Polson	4500	27.0	28.2												
STAR-KIST FOODS 582 Tuna Street Terminal Island, CA 90731																
9 Lives Tuna & Egg Flavor	Great Falls	4492	32.5	32.5					Calcium Phosphorus	1.0 0.8	1.4 1.1					
T&C INDUSTRIES, INC. 915 Murfreesboro Road Nashville, TN 37217																
Retriever High Protein Cat Food	Billings	4481	30.0	28.8*					Calcium Phosphorus	1.0 0.8	2.1 1.2					
TRIPLE "F" FEEDS Box 3600, Urbandale Branch Des Moines, IA 50322																
Sparkle Dog Food	Choteau	4494	22.0	24.7												
TUFFY'S Div. of Star-Kist Foods, Inc. 145 1st Avenue North Perham, MN 56573																
Seafood Mix	Great Falls	4493	30.0	33.7					Calcium Phosphorus	1.0 0.8	1.5 1.1					
Puppy Mix	Kalispell	4497	27.0	25.9*					Calcium Phosphorus Salt	1.0 0.8 1.4	1.8 1.2 0.9					

1982 FEED ANALYSIS BREAKDOWN

COMMERCIAL	NO. ANALYZED	NO. DEFICIENT	% DEFICIENT
Protein	179	47	26.3
NPN	14	4	28.6
Fat	49	2	4.1
Fiber	54	3	5.5
Calcium	64	2	3.1
Phosphorus	62	4	6.5
Salt	57	3	5.3
Iodine	8	0	0
Magnesium	5	0	0
Flourine	2	0	0
Vitamin A	83	6	7.2
Viatmin D	47	1	2.1
Amprolium	13	0	0
Arsanilic Acid	2	0	0
Furazolidone	2	0	0
Zoalene	2	0	0
PET FOODS			
Protein	41	6	15.0
Calcium	8	0	0
Phosphorus	8	0	0
Salt	1	0	0

FEED SAMPLING

YEAR	NO. SAMPLES TAKEN	NO. SAMPLES DEFICIENT	% DEFICIENT
1977	368	124	34
1978	401	105	26
1979	231	39	17
1980	437	62	14
1981	251	73	29

FEED TONNAGE

YEAR	TONNAGE
1976	391,176
1977	339,946
1978	322,452
1979	412,113
1980	373,463
1981	331,625

MONTANA COMMERCIAL FEED REPORTED

FOR 1981

FORMULA FEEDS		NO. OF TONS
1. Broiler Feeds	Complete	3,085
	Supplement	3
2. Turkey Feeds	Complete	490
	Supplement	97
3. Starter-Grower (Egg-Type)	Complete	2,604
	Supplement	159
4. Layer-Breeder (Egg-Type)	Complete	11,348
	Supplement	901
5. Beef Feeds	Complete	81,568
	Supplement	68,869
6. Dairy Feeds	Complete	9,177
	Supplement	3,569
7. Swine Feeds	Complete	15,888
	Supplement	8,707
8. Sheep Feeds	Complete	1,951
	Supplement	324
9. Horse Feeds	Complete	708
	Supplement	424
10. Mineral Feeds	Complete	0
	Supplement	8,334
11. Miscellaneous		21,575
TOTAL FORMULA FEED TONNAGE		239,781

FEED INGREDIENTS	NO. OF TONS
1. Alfalfa Products	5,039
2. Animal Products	325
3. Barley Products	6,531
4. Beet Products	1,371
5. Brewers Products	0
6. Cottonseed Products	1,139
7. Distillers Products	0
8. Fats & Oils	0
9. Linseed & Flax Products	75
10. Maize Products	25
11. Marine Products	64
12. Milk Products	37
13. Mineral Products	6,663
14. Molasses	14,359
15. Oat Products	1,513
16. Rye Products	0
17. Vitamin Products	153
18. Soybean Products	9,699
19. Urea	1,270
20. Wheat Products	33,199
21. Miscellaneous Products	10,382
TOTAL INGREDIENT TONNAGE	91,844

TOTAL COMMERCIAL FEED 331,625

MONTANA DEPARTMENT OF AGRICULTURE
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